



# **Qualcomm Presence with Unifying Signals API Project**

## **Bi-Weekly Report**

28th November 2014

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### **Project progression**

Lately we have have received the different sensors previously ordered and started programming on them. We have started to see some issues on them. The distance sensors (Sharp) only goes up to 80cm. The passive infrared we have only have an accuracy of 60%. The ultrasound is causing us a few problems. We do not know where they arise from. They are just not recognise by the arduino board.

The connectivity between our board and the online database is advancing quickly. We are just waiting for the other qualcomm group to send us the link to where we can store our signals.

Regarding the HCI part of the project we have decided to have lights on the board that can indicate the state in which the device is currently in (on, connected to the wifi, just has detected and sent the data online).

### **Tasks completed:**

- Setting up different Sensors: Sharp (distance),passive infrareds, and ultrasound
- Website is being setup
- Regarding the connectivity we have been able to connect to the Wifi.

## **Tasks to do in the coming week:**

- Send data from the board to an online database
- Solving the issues with the ultrasound and optimising the accuracy of the infrared sensors.
- Finishing the webpage
- Starting the video

# **Minutes of meeting**

for the COMP2013 - Qualcomm 2 project Team meeting

**Date & Time:** 18/11/2014 , 14:00

**Place:** Malet Place Engineering Building 1.21

## **1. Apologies**

Everyone present.

## **2. Minutes from the last meeting**

- Presented client the progress of the project.
- Plan and document how API looks like.
- Research on algorithms to build robust system.

## **3. Discussion**

- Discuss database format with Qualcomm 1 team.
- HCI design for hardware device.
- continue to research and build prototype using various sensors.

## **4. Task allocation**

Laszlo

- Design and build template for web site content.
- organise meeting with the UCL technical supervisor and order hardware devices

Yichen

- continue programming people counter system using arduino and IR and Ultrasound sensors.

Soo Yong

- continue programming people counter system using Kinect.

## **5. Any other business**

None

## **6. Date of next meeting**

25/11/2014, 14:00 at Malet Place Engineering Building 1.21

# **Minutes of meeting**

for the COMP2013 - Qualcomm 2 project Team meeting

**Date & Time:** 25/11/2014 , 14:00

**Place:** Malet Place Engineering Building 1.21

## **1. Apologies**

Everyone present.

## **2. Minutes from the last meeting**

- Discuss database format with Qualcomm 1 team.

- HCI design for hardware device.
- continue to research and build prototype using various sensors.

### **3. Discussion**

- Agreed to use MySQL for database.
- continue to research and build prototype using various sensors.

### **4. Task allocation**

Laszlo

- continue design and build template for web site content.
- organise meeting with the UCL technical supervisor and order hardware devices

Yichen

- continue programming people counter system using arduino and IR and Ultrasound sensors.

Soo Yong

- design and build front-end of web site.

### **5. Any other business**

None

### **6. Date of next meeting**

02/12/2014, 14:00 at Malet Place Engineering Building 1.21